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(21) International Application Number: PCT/US99/15129 (22) International Filing Date: 2 July 1999 (02.07.99) (30) Priority Data: 60/091,668 2 July 1998 (02.07.98) US (71) Applicant (for all designated States except US): RESEARCH AND DEVELOPMENT INSTITUTE, INC. [US/US]; 1711 West College, Bozeman, MT 59715 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): LONG, David, M. [US/US]; 414 S. 8th Street, Livingston, MT 59047 (US). SMIDANSKY, Eric, D. [US/US]; 9630 Cougar Drive, Bozeman, MT 59718 (US). STROBEL, Gary, A. [US/US]; 2107 Fairway Drive, Bozeman, MT 59715 (US). (74) Agent: ADLER, Reid, G.; Morgan, Lewis & Bockius LLP, 1800 M Street, N.W., Washington, DC 20036 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: <i>IN VIVO</i> ADDITION OF TELOMERIC REPEATS TO EXOGENOUS DNA GENERATES EXTRACHROMOSOMAL DNAs IN THE FUNGUS <i>PESTALOTIOPSIS</i> (57) Abstract This invention relates to compositions and methods useful for producing extrachromosomal DNA. More specifically, the present invention relates to compositions and methods for producing extrachromosomal DNA based on the unexpected discovery that the <i>Pestalotiopsis</i> fungi add one or more telomeric repeats to the ends of exogenous DNA.		

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